

DISCLOSURES DOCKET

Philip Morris Incorporated
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March 1, 1983

Code 1 - Offensive/Urgent
Code 2 - Defensive/Urgent
Code 3 - Offensive/Normal
Code 4 - Defensive/Normal

0000015126

779 MEANS TO MEASURE TOBACCO FIRMNESS ON CIGARETTE MAKER

J. Osmalov
Development Engineering/Mutter/Turano

A cigarette rod firmness control device has a firmness detector head comprising a differential transformer coupled to a detector shoe, which is biased toward and rides on a dynamically-flowing rod of tobacco. The detector shoe is displaced to and from the axial center line of the tobacco rod in response to the firmness of the rod, which is dependent on the rate of flow of tobacco into the rod forming garniture. The tobacco feed rate into the rod forming garniture is increased or decreased in response to signals generated by the level and the variations of rod firmness at the detector shoe to control rod firmness to within desired limits.

Note: See our 4033360 (Nienow et al.) and SN 226569 (Irving)

INACTIVE	Gregory	
	5-25-77	Disclosure received. Given to G. Brandt.
	2-8-80	Memos from Gannon to Palmer and Kothe re status.
	2-12-80	GMJS expects to receive a written analysis/opinion from Brandt that this disclosure is anticipated.
	3-7-80	Opinion received.
	3-11-80	Inactivated pending further developments.
	7-18-80	Reactivated, new information on its way.
	7-21-80	New information received.
	9-4-80	Need more details of short tongue construction.
	11-5-80	New data not yet compiled--per C. Irving.
	1-15-81	No new data at this time.
	6-24-81	Instrumentation received and new design is in the making.
	7-15-81	In-house search completed.
	9-10-81	Experiments are successful; newest mode is in need of further evaluation in view of very close prior art.
	12-17-81	Assigned to R&D docket for follow up.
	7-15-82	Reassigned to Patent Staff docket.
	8-9-82	Update search completed.
	1-4-83	U.S. 4010762 to inventor/Irving for review with this disclo- sure.
	2-14-83	Inactivated.

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0000015127

933 SPIRAL-WOUND PACKED BED BIOCATALYTIC REACTOR

H. Bravo
Biomaterials/Whidby/Farone

The invention involves a spiral-wound packed bed reactor consisting of a tube containing a flexible foam which may be smooth or contain indentions. On this foam are adhered segmented packets of encapsulated microorganisms which perform specific biochemical reactions. The encapsulated cells are segmented to facilitate and control flow rates and prevent compaction.

Gregory/F&N/Haley
CODE 1

11-2-79	Disclosure received—inventor notified.
12-79	Assigned to Hutcheson.
1-8-80	Discussed with inventor and manager. Must investigate prior art before processing.
2-11-80	Inventor to organize data for disclosure.
3-29-80	Met with Gillis of WLKT to discuss disclosure and state of the art.
7-22-80	Memo to inventor with copy of pertinent paper for review of data and other prior art papers; state of the art search on biocatalytic reactors requested.
8-1-80	Search results received. Several patents, numerous papers and thesis are of interest.
1-81	Gillis indicated she will have comments regarding all cases related to immobilization shortly.
4-81	Case placed on "hold".
5-18-81	Discussed with F&N.
6-29-81	Recommend sending to F&N for application preparation.
7-28-82	F&N asked for opinion on scope of patent protection obtainable.
1-19-83	Thesis by inventor to F&N for consideration.

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0000015128

935 MATERIALS AND METHOD FOR THE MANUFACTURE OF PELLETS (PI)

H. Bravo
Biomaterials/Whidby/Farone

The invention is a method for producing pellets containing live microbial cells or active enzymes. To make the pellets, the cell or enzyme solution is reacted with celite 545 (filter aid), glutaraldehyde, and polyethyleneimine, which are added sequentially. The end product consists of highly permeable pellets in which the protein on the outer wall of the microorganism or on the enzyme has reacted with the polymeric ingredients added.

Gregory/F&N/Haley
CODE 2

11-5-79	Disclosure received—inventor notified.
12-79	Assigned to Hutcheson.
1-8-80	Discussed with inventor and manager. Must investigate prior art before processing.
3-5-80	State of the art search requested; papers sent to inventor for review.
3-29-80	Met with Gillis of WLKT to discuss disclosure and state of the art.
3-21-80	Questions on process to inventor.
7-24-80	Search results to inventor and Gillis; Gillis to determine patentability.
8-25-80	Discussed with Gillis during visit.
10-20-80	Celite info to Gillis.
1-81	Gillis indicated she will have comments regarding all cases related to immobilization shortly.
4-81	Case placed on "hold".
5-18-81	Discussed with F&N.
6-29-81	Recommend sending to F&N for application preparation.
7-28-82	F&N asked for opinion on scope of patent protection obtainable.
1-19-83	Thesis by inventor to F&N for consideration.

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936 MATERIALS AND METHOD FOR THE MANUFACTURE OF PELLETS (PI)

H. Bravo
Biomaterials/Whidby/Farone

The invention is a method for producing pellets containing live microbial cells or active enzymes. To make the pellets, the cell or enzyme solution is reacted with celite 545 (filter aid), glutaraldehyde, and polyethyleneimine, which are added sequentially. The end product consists of highly permeable pellets in which the protein on the outer wall of the microorganism or on the enzyme has reacted with the polymeric ingredients added.

Gregory/F&N/Haley
CODE 2

11-5-79	Disclosure received—inventor notified.
12-79	Assigned to Hutcheson.
1-8-80	Discussed with inventor and manager. Must investigate prior art before processing.
3-5-80	State of the art search requested; papers sent to inventor for review.
3-29-80	Met with Gillis of WLKT to discuss disclosure and state of the art.
3-21-80	Questions on process to inventor.
7-24-80	Search results to inventor and Gillis; Gillis to determine patentability.
8-25-80	Discussed with Gillis during visit.
10-20-80	Celite info to Gillis.
1-81	Gillis indicated she will have comments regarding all cases related to immobilization shortly.
4-81	Case placed on "hold".
5-18-81	Discussed with F&N.
6-29-81	Recommend sending to F&N for application preparation.
7-28-82	F&N asked for opinion on scope of patent protection obtainable.
1-19-83	Thesis by inventor to F&N for consideration.

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0000015130

937 SAPONIFIED UNSATURATED FATTY ACIDS

H. Bravo

Biomaterials/Whidby/Farone

The invention is a method for producing pellets containing live microbial cells or active enzymes. To make the pellets the cell or enzyme solution is reacted with celite 545 (filter aid); saponified unsaturated fatty acids i.e. sodium oleate, linoleic acid, linoleic acid, Joy liquid soap, White Dive liquid soap, etc. and polyethyleneimine, which are added sequentially. The end product consists of highly permeable pellets in which the protein on the outer wall of the microorganism or on the enzyme has reacted with the polymeric ingredients added.

Gregory/F&N/Haley

CODE 2

11-5-79 Disclosure received—inventor notified.
12-79 Assigned to Hutcheson.
1-8-80 Discussed with inventor and manager. Must investigate prior art before processing.
3-5-80 State of the art search requested; papers sent to inventor for review.
3-29-80 Met with Gillis of WLKT to discuss disclosure and state of the art.
3-21-80 Questions on process to inventor.
7-24-80 Search results to inventor and Gillis; Gillis to determine patentability.
8-25-80 Discussed with Gillis during visit.
10-20-80 Celite info to Gillis.
1-81 Gillis indicated she will have comments regarding all cases related to immobilization shortly.
4-81 Case placed on "hold".
5-18-81 Discussed with F&N.
6-29-81 Recommend sending to F&N for application preparation.
7-28-82 F&N asked for opinion on scope of patent protection obtainable.
1-19-83 Thesis by inventor to F&N for consideration.

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0000015131

943 RAPID REORDERING WITH AN APRON DRYER

F. King, Jr. and P. Sherman
Engineering/Kay/Taylor

A method and apparatus for drying tobacco and expeditiously reordering it to a desired moisture content immediately following the drying cycle. A shortened path tobacco dryer comprising a conveyor belt is made with a first stage heating section and a second stage cooling section. A third stage tobacco free fall area is provided where moisture is added on the fly after the tobacco is dropped from the belt at the end of the cooling section. The tobacco is made to fall in the form of a curtain of substantially single layered leaf or sheet through an aqueous mist where moisture is readily reabsorbed to reorder the tobacco.

Gregory
12-7-79 Disclosure received—inventors notified.
1-21-80 Assigned to Sarofeen.
2-80 PM data base search completed—results to inventors for review.
6-27-80 Disclosure sent to WLKT for preparation of application.
8-5-80 Disclosure and in-house search to WLKT.
9-4-80 Discussed with Brandt; meeting set for October.
10-22-80 Request from Brandt for more information—request forwarded to Kay and inventors.
12-8-80 Additional info to Brandt.
1-15-81 Draft expected soon.
5-18-81 Sarofeen to complete WLKT draft application.
7-10-81 Reassigned to JES.
8-81 Application redrafted, claims drafted; to be put in final form.
10-1-82 Reassigned to DAG.

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0000015132

950 APPLYING ADHESIVE TO TIPPING PAPER

F. Sherwood and T. Van Auken (Manufacturing)
Tobacco Fundamentals/Watson/Turano

Adhesive can be applied to tipping paper in a skip-tip pattern using nozzles with a steady flow. This can be achieved by either of two methods. Method A: A masking belt, with the intermittent part of the skip-tip pattern cut in it as openings, passes between a set of nozzles and the tipping paper. The masking belt is then drawn away, and a second set of nozzles completes the skip-tip pattern by applying adhesive to areas requiring an uninterrupted laydown of adhesive. Method B: The skip-tip pattern is obtained by spraying a stream of adhesive droplets through an electrical system which puts a charge on the droplets, and then deflects the droplets from the paper where dry areas are required using an electric field.

Gregory
CODE 2

2-1-80	Disclosure received—inventors notified.
3-14-80	Disclosure sent to WLKT for application preparation.
3-19-80	In-house search completed—results to inventors/Kothe.
6-20-80	Remarks from T.V. on search.
1-14-81	Outside search completed; questions being readied by WLKT.
3-23-81	Letter to WLKT stating that we would like to take this case off their hands unless they have a draft nearly finished.
3-27-81	Search results received.
5-18-81	Recommend sending to F&N ASAP.
9-81	Reassigned to Schardt.
10-1-82	Reassigned to Gregory.

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0000015133

986 POWER METER

E. Stultz (Louisville), M. Barnette, W. Smick
Engineering//Taylor/Kay

Object: Power will be maintained at a given level without variation concerns due to line voltage changes, gas flow changes, and/or any fluctuations in other laser parameters including environmental conditions. Description: Use of a Power Meter output from an end mirror type to feed an electronic signal to increase or decrease laser power to a present level and thereby maintain and control laser output power. With this device a detector of holes in a web of laser perforated paper can be used to accurately control the quality and/or pressure drop of holes laser perforated into the web of paper by feeding back this signal to control the stabilized laser power.

Sarofeen/F&N/Diana

9-9-80 Disclosure received—inventors notified.
1-21-81 Disclosure to WLKT for application preparation.
3-23-81 WLKT instructed not to do any further work on this case.
5-18-81 Recommend sending to F&N ASAP.
9-9-81 Disclosure to F&N for application preparation.
11-3-81 Additional disclosure materials to F&N.
5-25-82 Additional disclosure materials to F&N.
9-13-82 Search completed—to inventors for review.

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995 LASER TEMPERATURE STABILIZATION AND DEW POINT CONTROL SYSTEM

E. Grollimund
Engineering/Tew/Taylor/Kay

A method of increasing laser power output per unit of input power by controlling and adjusting air humidity and temperature and oil temperature.

Sarofeen

9-23-80 Disclosure received—inventor notified; assigned to Sarofeen.
1-15-81 996 combined herewith.
1-21-81 Disclosure to WLKT for application preparation.
3-23-81 WLKT instructed not to do any further work on this case.
5-18-81 For discussion with F&N.
10-2-81 US 4286604 to Shaw.
1-5-82 Under study to determine advisability of filing.
2-82 GMJS to review.
11-4-82 K&S requested to do patentability search.
12-15-82 Search results received.
1-5-83 Search results to inventor for review.

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0000015134

1007 MANUFACTURE OF FLUTED PLUGS

A. Gillespie, K. Stover, and W. Sanderson
Engineering/Kay/Taylor

The invention is the addition of a system of rollers to a filter making machine to deform an otherwise round plug into a desired shape.

Related to 1001; see also 1033, 1034, 1035 (FTR).

Sarofeen/F&N/Diana

12-10-80 Disclosure received—inventors notified.
1-21-81 Disclosure to WLKT for application preparation.
3-23-91 WLKT instructed not to do any further work on this case.
5-18-81 For discussion with F&N re Barclay situation.
6-24-81 Needs to be coordinated with other Barclay-type cases.
8-21-81 To proceed in view of decision to file PM 1001 in U.S.
1-5-82 Recommend sending to F&N for application preparation.
8-27-82 In-house update search completed.
9-17-82 Notebook transcripts to F&N.

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1018 A MECHANICAL TOBACCO PROCESSOR

I. Uydess
Biomaterials/Whidby/Farone

A mechanized tobacco processor for the preconditioning, infiltration, heating and/or "expansion" of tobacco under constant temperature, RH, etc. within a closed circular "tower" similar in configuration to a "cyclotron."

Inskeep/F&N/Shaw

CODE 1

2-19-81 Disclosure received—inventor notified.
2-25-81 Disclosure to WLKT for application preparation.
5-18-81 Recommend sending to F&N ASAP.
9-11-81 Inventor leaving company; he discussed with F&N. They will proceed to prepare application.
1-82 F&N attorney needs to consult with engineers here.
1-18-82 Memo from SAH to Merritt & Lilly: review disclosure with view towards rendering engineering advice to F&N.
7-8-82 Prototype apparatus being built.

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0000015135

1023 TOBACCO CUTTER DIAMOND PATTERN

R. Lanier and R. DeVilbiss
Engineering/Kay/Taylor

A diamond pattern tobacco cutter designed to replace the thresher used in the RL plant or the slitter-cutter used in the BL plant. Use of two rollers, one with helical blades and the other with mated helical grooves are used to achieve uniformity in size, to produce a smooth edge when cut, to minimize scrap, and to reduce operational cost.

Blish/F&N

2-25-81 Disclosure received—inventors notified.
9-18-81 Prototype installation in about 3 weeks.
10-1-81 In-house search completed.
4-22-82 Search results to inventors for review.
4-28-82 Prior art discussed with inventors.
9-30-82 Disclosure to F&N for evaluation and application preparation.
2-15-83 Prior art received from F&N for review.

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1024 METHOD AND APPARATUS FOR UNIFORMLY CUTTING TOBACCO SHEETS

R. Thatcher and J. Tomanovits
Engineering/Kay/Taylor

A method and apparatus are disclosed for shredding reconstituted and blended leaf sheets, wherein the sheet is first slit longitudinally, and then cut off transversely by means of bringing the points of a serrated blade into contact with the slit sheet at an angle to penetrate the sheet, and then moving the blade to tear off the portion of the sheet between the point of penetration and the end of the sheet. This produces much more uniform shreds, with less dust and shattering, than has hitherto been possible.

Related to 1055, 1075, 1076, 1068

FILED

Sarofeen/F&N/Diana

2-25-81 Disclosure received—inventors notified.
4-12-81 Outside search requested of Kirk & Smith.
6-1-81 Search results received.
6-8-82 Conference with Diana and inventors.
6-11-82 Disclosure to F&N for application preparation.
7-1-82 Additional info to F&N.
10-14-82 Letter from Diana requesting additional information; communicated to Kay.
12-8-82 Draft application received.
1-19-83 Redraft received.
2-7-83 Executed and mailed to F&N for filing.

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0000015136

1027 PROCESS FOR INCREASING THE FILLING POWER OF TOBACCO

N. Rainer and D. Siwiec
Tobacco Fundamentals/Watson/Turano

A process is disclosed for increasing the filling power of tobacco by contacting the tobacco, preferably by dry blending, with at least one basic calcium compound in an amount such that the treated tobacco has a pH of at least about 8, and heating the tobacco in the presence of sufficient moisture to establish and maintain its OV value within the range of from about 14% to about 40% and at a temperature and for a time sufficient to increase the filling power of the tobacco. As an additional first step, the tobacco may be contacted with an acid to achieve a tobacco product of lighter color.

Related to 983.

FILED Inskip/F&N/Hendricks
3-4-81 Disclosure received—inventor notified.
1-82 Inventor pursuing.
2-5-82 Transferred to R&D docket.
5-6-82 Supplemental disclosure submitted to patent staff.
5-11-82 Disclosure to F&N for consideration as to whether there is any basis for preparation of a new application as it may bear on other work.

6-1-82 Copy of PM 983 to Shaw.
6-21-82 Copy of PM 774 and 797 to Shaw.
8-23-82 Draft application received—to inventor for review.
10-21-82 Comments/corrections to F&N.
10-26-82 Shaw conference with GEI to discuss proposed revisions to draft.

12-16-82 Redraft received.
12-22-82 Memo from SAH re related disclosures.
1-13-83 Memo from SAH transmitting management and inventors' comments on draft.
1-24-83 Redraft received from F&N.
1-28-83 Executed and mailed to F&N for filing.

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0000015137

1055 ROTARY CHEVRON SHEET CUTTER

M. Anderson and R. Thatcher
Engineering/Kay/Taylor

A method and apparatus for cutting sheet material such as reconstituted tobacco sheets into shards of substantially regular form. A multi-chevron shaped plate-like cutter bar comprises an obverse cutting edge of alternative peaks of 90° angles and valleys of 90° angles, and an oppositely formed reverse cutting edge of similar complementary arrangement with the peaks of the reverse cutting edge positioned opposite to the valleys of the obverse edge and the valleys of the reverse cutting edge positioned opposite to the peaks of the obverse cutting edge. The plate-like cutter is mounted for rotation on an axis through the length of the plate along its center line parallel to and midway of the obverse and reverse cutting edges.

Related to 1023, 1024, 1075, 1076, 1068, 1082

Sarofeen/F&N/Diana

7-1-81 Disclosure received—inventors notified.
1-5-82 Possible conflict with PM 1023.
3-3-82 Disclosure reviewed with Kay; he requested that we conduct search.
5-21-82 K&S requested to do search.
6-3-82 Search results received.
6-8-82 Conference with Diana and inventors.
6-11-82 Disclosure to F&N for application preparation.
7-1-82 Additional info to F&N.
10-14-82 Letter from Diana requesting additional information; communicated to Kay.

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1056 TOBACCO DRYING

D. Lowitz and J. Crump
Biomaterials/Whidby/Farone

Blish

CODE 2

7-1-81 Disclosure received—inventors notified.
7-10-81 Discussed with inventor Crump; 7-13 discussed with inventor Lowitz.
10-1-82 Reassigned to Blish.
2-83 In-house search in progress.

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0000015138

1062 LASER MICROMETER CIRCUMFERENCE GAUGE

W. Nichols
Cigarette Development/Meyer/Gauvin

The object of the invention is to provide a uniform force on the exterior of a compressible cylindrically shaped article that will preclude the sensing of surface irregularities on the cylinder while being measured.

Blish
7-14-81 Disclosure received—inventor notified.
9-17-81 Discussed with inventor.
10-1-82 Reassigned to Blish.
2-83 R&D asked to review.

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1064 TRANSFER DEVICE

J. Wheless
Engineering/Kay/Taylor

This device is comprised of pockets (supplied with vacuum) attached to two rotating plates. These plates are rotating about offset center lines. The pockets are held to the plates with a pair of pivots op° to each other. There is a pair of these pivots at each end of the pockets, which connect the pockets to both plates. The plates are both driven independently at the same speed to reduce the forces on the pivots. As the plates rotate, the pockets are forced to remain parallel and continue facing the outside of the device. This facing the outside allows the product to be picked up or discharged at any point. Remaining parallel allows the product to be transferred from one location to another, or change the direction of movement without changing the product orientation.

Sarofeen
7-20-81 Disclosure received—inventor notified.
10-1-82 Reassigned to Sarofeen.

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0000015139

1068 LEAF STRIPPER DRUM WITH OVERHEAD DIVERGING STRIPPER CHAINS

F. King, R. Thatcher and M. Anderson
Engineering/Hayward/Kay/Taylor

Object: the invention is intended to strip lamina from stem on whole leaf tobacco while increasing lamina size and reducing (a) degradation, (b) dust generation, (c) lamina tearing, and (d) power requirements per pound processed.

Related to 1024, 1055, 1075, 1076, 1147, Jenkins Patent Matter

Gregory/F&N/Diana
7-23-81 Disclosure received--inventor notified.
6-2-82 In-house search completed.
9-8-82 Disclosure to Diana for evaluation.

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1074 TREATMENT OF CLASS TOBACCO, STEMS AND THE LIKE

G. Keritsis and H. Sun
Tobacco Fundamentals/Watson/Turano

Gregory
8-7-81 Disclosure file opened.
1-26-82 Transferred to R&D docket for follow-up.
8-10-82 Supplemental disclosure received by Patent Staff.

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0000015140

1075 CUT TOBACCO PICKER FOR SIZING AND SEPARATING

R. Thatcher and L. Turano
Engineering/Hayward/Taylor/Kay

Object of the invention is to take a feed or pile of whole cut leaf tobacco and end up with a sized, separated, usable filler.

Related to 1024, 1055, 1076, 1068

Sarofeen/F&N/Diana

8-7-81 Disclosure received—inventors notified.
3-3-82 Transferred to Engineering docket.
6-8-82 Conference with Diana and inventors.
6-11-82 Disclosure to F&N for application preparation.
7-21-82 Proposed claims received.
7-30-82 Letter to F&N: claims OK; will conduct search.
9-10-82 In-house search completed.
10-15-82 Search results to Diana.
11-24-82 Letter from Diana confirming that he will prepare preliminary draft pending completion of design work on machine.

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1076 LEAF STRIPPER PLATTEN WITH OVERHEAD DIVERGING STRIPPER CHAINS

F. King and R. Thatcher
Engineering/Hayward/Taylor/Kay

Object: the invention is intended to strip lamina from stem on whole leaf tobacco while increasing lamina size and reducing (a) degradation, (b) dust generation, (c) lamina tearing, and (d) power requirements per pound processed.

Related to 1024, 1055, 1075, 1068, 1147, Jenkins Patent Matter

Gregory/F&N/Diana

8-7-81 Disclosure received—inventors notified.
6-2-82 In-house search completed.
8-5-82 Disclosure to F&N for evaluation.

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0000015141

1077 INFINITELY VARIABLE DELIVERY FILTER

J. Adams
Engineering/Hayward/Taylor/Kay

INACTIVE Blish
8-1-81 Disclosure received—inventors notified.
12-15-82 In-house search completed; results to inventor for review.
1-17-83 Inactivated—close art.

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1078 INTERRUPT AND DIVIDE A LASER BEAM

R. Brinker
Engineering/Taylor/Kay

An optical device for converting a single, continuous incident laser beam into a plurality of pulsed laser beams is provided. The device uses a rotatable first optical refracting element to cause the incident laser beam to sweep the surface of an imaginary cone. A circular or elliptical array of fixed, second optical refracting elements is placed in the path of the sweeping beam. The array is mounted in a holder of opaque energy-absorbing material separating that element from the next fixed second optical refracting element. As the beam sweeps a complete circle or ellipse, a pulsation effect is created by this repetitive transmission and absorption, giving rise to a plurality of pulsed output beams. Such a device can be incorporated into a system for perforating a web of sheet material with pulsed laser beams.

Sarofeen/F&N/Giannetti
8-7-81 Disclosure received—inventors notified.
3-3-82 Disclosure reviewed with Kay; he requested that we conduct search.
6-11-82 K&S requested to conduct search.
7-9-82 Search results received.
8-5-82 Disclosure to F&N for application preparation.
8-12-82 Giannetti conference with inventor.
10-22-82 Letter from Giannetti with pertinent art.
11-2-82 F&N instructed by phone to proceed with application preparation.
1-5-83 Sketch to F&N.
2-23-83 Draft received—to inventor for review.

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0000015142

1079 FLUIDIZED BED VIBRATORY SEPARATOR

R. Thatcher and L. Turano
Engineering/Hayward/Taylor/Kay

Object of the invention is to effect a separation of tobacco filler from stem or, or laminate leaf from laminate and stem.

Sarofeen/F&N/Diana

- 8-7-81 Disclosure received—inventors notified.
- 3-3-82 Transferred to Engineering docket.
- 6-8-82 Conference with Diana and inventors.
- 6-11-82 Disclosure to F&N for application preparation.
- 7-21-82 Proposed claims received.
- 7-30-82 Letter to F&N: claims OK; will conduct search.
- 9-10-82 In-house search completed.
- 10-15-82 Search results to Diana.
- 11-24-82 Letter from Diana confirming that we will send additional information as work progresses.
- 3-2-83 Memo to SAH stating that R. Wagoner has been briefed at her request and that he was asked to keep us posted on developments.

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1082 CONTROLLED TOBACCO SIZE

C. Wood
Tobacco Product Standards/Bates

A rotor/cutting device designed to produce a size controlled tobacco material to provide overall larger tobacco pieces from either tobacco leaf or tobacco sheet material in tobacco stemming and tobacco sheet processing.

Related to 1055, 1023

Blish/F&N

- 8-11-81 Disclosure received—inventors notified.
- 9-30-82 Disclosure to F&N for evaluation and application preparation.
- 2-15-83 Prior art received from F&N for review.

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0000015143

1087 PROCESS IDENTIFICATION AND CONTROL

E. Grollimund
Engineering/Taylor/Kay

This is a spray function to first spray glue onto paper followed by an ink spray. It is designed to mark the point on a bobbin of cigarette paper which is undergoing perforation to show where high speed, normal perforation began.

Sarofeen

11-16-81 Disclosure received—inventor notified.

3-3-82 Disclosure reviewed with Kay; he requested that we conduct search.

3-30-82 In-house search completed; search requested from K&S.

4-30-82 K&S search results received.

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1097 PVA ENCAPSULATION

R. Newsome, R. Thesing, W. Houck, W. Nichols
Cigarette Development/Gauvin/Meyer

This is a system in which menthol or other volatile flavors are dissolved in a stock solution of ethanol and/or ethanol and triacetin and mixed between 2 and 4 parts PVA with one part of the stock solution. The dry film then releases the flavor when activated with moisture.

Gregory

3-16-82 Disclosure received—inventors notified.

3-30-82 In-house search completed—to inventors for review.

4-5-82 Search results to inventors for review.

4-20-82 Discussion with Newsome and Thesing re references and present work; they will send more information.

10-22-82 Reassigned to DAG.

1-13-83 Memo to inventors stating that additional information is needed to prepare an application.

2-83 PM 1107 combined herewith.

2-14-83 Additional information received; more still needed.

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0000015144

1099 DRAW ROLLER TOBACCO LEAF SIZING APPARATUS

R. Thatcher, F. King, W. David
Engineering/Kay/Taylor

Gregory
7-15-81 Disclosure submitted to Patent Staff for review.
10-12-81 In-house search completed.
3-26-82 Disclosure file opened.
1-83 Updated search completed.

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1100 APPARATUS FOR A CIGARETTE PACKAGING MACHINE

M. Juillerat
FTR

A cigarette packaging inner collar transfer apparatus is disclosed wherein the collar is transferred from a receiving station in a semi-circular arc by means of an inner conveying belt and an outer conveying belt which holds the vertical tab of the collar in a vertical position between the two belts. The collar is removed at the delivery end by turning a station and inserting it in the cigarette pack.

FILED Blish
5-14-82 Disclosure file opened.
7-19-82 Letter to Mandiratta with questions concerning application;
Jim Kay asked to recommend someone in Engineering to
bring NAB up to date on this technology.
12-23-82 Application to FTR for execution.
1-20-83 Second application to FTR for executed.

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0000015145

1101 APPARATUS FOR HANDLING PACKED GOODS

M. Berger, J. Bernasconi, and M. Juillerat
FTR

Apparatus for gripping cases of cigarettes from a casing machine and for stacking the cases on a pallet including two fixed and vertical uprights to guide the movements of a bridge which is cantilevered in front of the uprights and which is movable in the vertical direction along these uprights. A suction-cup is rotatable about a vertical axis and is mounted on a carriage movable transversely on a slide which is movable longitudinally on the bridge. The cases of cigarettes are put onto a roller train which moves forward so that each case reaches a presentation position where the suction-cup seizes it. Position sensors detect the presence of a pallet under the bridge and control the movements of the suction-cup so as to distribute the cases in several successive layers on the pallet.

Gregory
5-14-82 Disclosure file opened.
10-19-82 Letter to Mandiratta requesting certified copy and inventor particulars.
11-22-82 Letter from Mandiratta enclosing certified copy and inventor particulars.
2-28-83 Application to FTR for review and execution.

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1102 DEVICE FOR SUPPLYING A MACHINE WITH RIGID ELEMENTS

M. Berger, D. Da Silva, and M. Juillerat
FTR

A device for supplying rod shaped rigid elements to a machine including a hopper having a vertical bottom and two sidewalls and being closed toward the front by an extensible screen and having an upper edge connected to a frame bearing a detector. A drive means keeps the frame at a height corresponding to the level of the top of the stack of elements in the hopper. When a minimum level is reached, the receptacle, having a tray bearing a package containing the filter elements, is tilted back into the hopper by rotation of the shaft and then brought immediately above the level of the stack. Its base is opened by displacement of a shutter. The package is emptied gradually by elevation of the frame and of the means for driving and for guiding the receptacle. The receptacle then returns to its starting position.

Gregory
5-14-82 Disclosure file opened.
10-19-82 Letter to Mandiratta requesting certified copy and inventor particulars.
11-22-82 Letter from Mandiratta enclosing certified copy and inventor particulars.
2-28-83 Application to FTR for review and execution.

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1103 FILTER MATERIAL FOR REDUCTION OF NO_x

R. Rainer and C. McClung
Tobacco Fundamentals/Watson/Turano

A composition for filtration of NO from tobacco smoke, effective after storage in the presence of the volatile components of tobacco and moisture, comprising, by weight of the total composition, from about 5% to about 40% NaMnO₄, from about 0.5% to about 6% colloidal silica, from about 40% to about 90% silica gel and from about 4% to about 30% H₂O, the colloidal silica having an average particle size of from about .004_μ to about .010_μ and a surface area of from about 200 m²/g to about 500 m²/g, and the silica gel having a granule size of from about 20 to about 100 mesh and an initial pore volume of from about 0.9 cc/g to about 1.4 cc/g. Alumina gel may be used in place of part of the silica gel in order to reduce the temperature of the smoke.

Inskeep/F&N/Hendricks

- 5-6-82 Disclosure received—inventors notified.
- 5-27-82 Disclosure to F&N for consideration as to whether there is any basis for an application.
- 11-5-82 Draft application received—to SAH for review.
- 12-28-82 Comments/corrections to F&N.
- 1-3-83 Inventor phone conference with Hendricks.

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1105 LONG CHAIN ALKYL AND ALKENYL ESTERS OF OXOCARBOXYLIC ACIDS

D. Williams, E. Southwick, and W. Edwards III
Chemical Research/Osdene/Sanders

This invention describes a novel class of long chain alkyl and alkenyl esters of oxocarboxylic acids which act as tobacco flavorants.

Gregory/D&O

- 6-10-82 Disclosure file opened.
- 6-16-82 Disclosure to D&O with request to perform patentability search and advise scope of patent protection obtainable.
- 7-27-82 Search results received—to inventors for review with request for additional information; D&O instructed to draft application.
- 9-14-82 Japanese article to D&O for consideration.
- 9-17-82 Letter from D&O recommending meeting to discuss the invention.
- 10-6-82 Memo to inventors re Japanese article.
- 10-14-82 Depaoli conference to discuss case.
- 11-16-82 Memo to SAH asking her to ascertain plans for future work on this case; she says work progressing.
- 12-7-82 Note from Farone indicating that a literature search is in progress and data on current work is being compiled.

0000015147

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1106 LIQUID DISTRIBUTION DEVICE

J. Brosy
FTR

The invention provides a liquid distribution device for use in, for example, extraction beds. The device comprises an elongate chamber or hollow arm defined by two plates, a cylinder closed at one end by a wall and opening at the other end into the chamber through one of the plates and a pipe opening tangentially into the cylinder. Liquid enters the cylinder through the pipe, and flows around the side wall of the cylinder and impinges upon the opposed plate of the chamber, where it is spread along the plate and leaves through the slot between inclined portions of the plates.

Gregory
7-9-82 Disclosure file opened.
10-19-82 Letter to Mandiratta requesting certified copy and inventor particulars.
11-22-82 Letter from Mandiratta enclosing certified copy and inventor particulars.
2-28-83 Application to FTR for review and execution.

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1107 BREATH FRESHNER CIGARETTE

R. Newsome, R. Thesing, W. Houck, and W. Nichols
Cigarette Development/Gauvin/Meyer

A cigarette which releases a flavor on or near the last puff to produce a cooling or refreshing sensation in the mouth.

COMBINED Gregory
3-26-82 Disclosure submitted to Patent Staff for review.
7-15-82 Disclosure file opened.
7-27-82 In-house search completed.
1-13-83 Memo to inventors stating that additional information is needed to prepare an application.
2-83 Combined with PM 1097.

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0000015148

1108 FLAVORANTS FOR SMOKING PRODUCTS

R. Cox
Analytical/Kuhn/Farone

The heating of a sugar with ammonium hydroxide is known to produce compounds identical to those formed in the nonenzymatic browning reaction and are thought to be responsible for the roasted aroma of many foods. We have discovered that a stable intermediate is formed in these reactions. Isolation and characterization of these intermediates suggest that they are the pyranose form of the imine of the ammonia addition product. Preliminary tests suggest that the intermediate isolated from glucose and ammonium hydroxide may be a useful tobacco flavorant, imparting a Burley characteristic to test cigarettes.

Inskeep
7-9-82 Disclosure submitted to Patent Staff for review.
7-16-82 Disclosure file opened.
12-10-82 Inventor, Grubbs, and Haut will review disclosure.

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1109 USE OF LIQUID CARBON DIOXIDE

T. Howell
Beverage R&D/Assar

Inskeep
7-27-82 Disclosure file opened.
8-14-82 In-house search completed.

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0000015149

1113 REDUCED SIDESTREAM CIGARETTE WRAPPER

K. Gunst, B. Goodman, and R. Greene
Cigarette Development/Gauvin/Meyer

In accordance with the present invention, it has been discovered that a cigarette wrapper of commercial cigarette paper, preferably selected from the group consisting of flax paper, hemp paper, kenaf paper, esparto grass paper, rice straw paper, and high-quality cellulose paper, which includes an additive selected from the group consisting of calcium carbonate, titanium dioxide, and mixtures thereof, in an amount within the range of from about 4% to 12%, by weight of the wrapper, said wrapper having a porosity of from about 12 to about 17, as measured by the Greiner method, produces sidestream smoke of reduced visibility.

Blish/F&N/Shaw

7-2-82 Disclosure submitted to Patent Staff for review.
8-4-82 Disclosure file opened; disclosure to F&N for application preparation.
8-12-82 Shaw conference with inventors.
12-14-82 Draft application received—to inventors for review.
12-31-83 Draft to SAH/management for review.
1-6-83 Draft returned by SAH; Meyer recommends sending to NY for review.
1-17-83 Draft to Newman in NY for review re current litigation.

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1114 CIGARETTE WITH SELECTABLE DILUTION LEVEL

E. Grollimund
Engineering/Kay/Taylor

The scope of this invention depicts a cigarette with annular rows of perforations and a cigarette sleeve which provides preset positioning of said sleeve or sleeves relative to the rows of perforations so as to cover or leave uncovered annular rows of perforations and in so doing provide, for example, 5 levels of dilution when 4 rows of perforation are used, etc.

Sarofeen

8-9-82 Disclosure file opened.
1-11-83 Note and disclosure to Shaw asking him to evaluate advisability of proceeding based on prior art.
2-3-83 Letter from Shaw enclosing patents for consideration and asking for written instructions if patentability opinion desired.

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0000015150

1115 ROTARY LEAF STRIPPER WITH CONCAVE PLATEN

F. King and R. Thatcher
Engineering/Kay/Taylor

Object: the invention is intended to strip lamina from stem on whole leaf tobacco while increasing lamina size and reducing degradation, dust generation, lamina tearing, and power requirements per pound processed (as compared with present practices).

Sarofeen

7-8-82 Disclosure submitted to Patent Staff for review.

8-9-82 Disclosure file opened.

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1116 WHOLE TOBACCO LEAF INDEXING AND ORIENTING ROLL

F. King and M. Maher
Engineering/Kay/Taylor

Object: the invention is intended to orient and index cured, whole leaf tobacco that has been aligned with the stems' axes parallel to each other and perpendicular to conveyor travel.

Sarofeen

7-8-82 Disclosure submitted to Patent Staff for review.

8-9-82 Disclosure file opened.

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1117 WHOLE LEAF INDEXING AND ORIENTING RAKE

F. King and M. Christy
Engineering/Kay/Taylor

Object: the invention is intended to orient and index cured, whole leaf tobacco that has been aligned with the stems' axes parallel to each other and perpendicular to conveyor travel.

Sarofeen

7-8-82 Disclosure submitted to Patent Staff for review.

8-9-82 Disclosure file opened.

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0000015151

1118 MULTIPLE DRAPING LEAF ALIGNMENT APPARATUS

F. King and S. Muller
Engineering/Hayward/Kay/Taylor

Object: to align the leaves of whole leaf tobacco so that the stems axes are parallel to each other and perpendicular to conveyor travel.

Sarofeen
7-8-82 Disclosure submitted to Patent Staff for review.
8-9-82 Disclosure file opened.

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1119 TOBACCO CONVEYING AND TREATING SYSTEM

R. Wraase and W. Jenkins
Westab/Buchanan

This invention replaces conventional rubber belting with a polyester fabric which is opened weave. Tobacco conveyed with this fabric should show improved quality for the following reasons: (1) the product being carried on the belt releases easily from the surface thus aids in cleaning by eliminating build-up problems inherent with belt transference; and (2) a reduction in tobacco fines is possible since the fabric breathes and rejects undesirable fines.

Sarofeen
8-16-82 Disclosure file opened.
1-13-83 In-house search completed; work on draft application begun.

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0000015152

1120 PRODUCTION OF JUICE CONCENTRATES

W. Winterson
Beverage R&D/Assar

A process for the production of juice concentrates containing pulp or other particulates whereby the particulate material is removed by ultrafiltration (or other means) from the stream prior to concentrate. The clarified stream, which is sterile by nature of the ultrafiltration step, is then freeze concentrated using known technology. The solids containing stream is sterilized by pasteurization or other known means, concentrated if desired, then mixed with the concentrate leaving the freeze concentrator.

Inskeep
8-16-82 Disclosure file opened.
9-8-82 K&S requested to do patentability search.
10-11-82 Search results received, reviewed, and forwarded to inventor for review.
12-31-82 Comments on search received.
2-9-83 Further experimentation in progress.

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1121 STIFFENING AGENT FOR TOBACCO

N. Rainer and D. Siwiec
Tobacco Fundamentals/Watson/Turano

Object: a strengthening binder for reconstituted sheet products. A stiffening agent for cut tobacco. An adhesive for applying CT to tobacco.

Inskeep
8-27-82 Disclosure file opened; memo to inventors requesting examples and details when available.

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0000015153

1127 SMOKING COMPOSITIONS

K. Podraza and Y. Houminer
Chemical Research/Sanders/Osdene

This invention provides smoking compositions which contain a monocarbonate ester compound as a flavorant additive. In one of its embodiments, this invention provides tobacco compositions which contain a monocarbonate ester flavorant additive such as 1-phenoxy-carbonyloxy-3-propanol. Under cigarette smoking conditions this monocarbonate ester pyrolyzes into phenol and other products which flavor the mainstream and sidestream smoke.

Inskeep/D&O

10-8-82 Disclosure file opened.
10-14-82 Disclosure discussed with Depaoli.
10-27-82 Disclosure to D&O for application preparation.
12-20-82 Draft application received—to inventors for review.
12-29-82 Inventors comments received.
3-3-83 Inventors comments to D&O.

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0000015154

1128 OVERHEAD RETAIL MERCHANDISING UNIT

L. Wiese
Henschel-Steinau/PM Inc.

An overhead retail merchandising display for cigarettes is provided. The height of the display is continuously adjustable to the varying heights of store personnel. The display is distinctive and attractive in appearance, while at the same time being simple to construct and operate. It is supported by generally upright posts which preferably telescope so that they can be adjusted to the height requirements of a given installation. For finer adjustment to the height of store personnel, it is provided with a mechanism for raising and lowering it on the upright posts and retaining it in any selected position.

FILED Blish/F&N/Shaw
10-8-82 Disclosure file opened.
10-12-82 K&S patentability search requested.
11-12-82 Search results received.
12-23-82 Disclosure and search results to F&N for evaluation and application preparation.
1-17-83 Memo to Newman in NY re filing utility and design applications.
1-28-83 Draft application received.
2-2-83 Memo to Newman in NY re delay in filing.
2-7-83 Executed and filed in PTO.

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1128 DESIGN/CIGARETTE PACK MERCHANDISING UNIT

L. Wiese
Henschel-Steinau/PM Inc.

(Design application.)

Blish/F&N/Shaw
1-28-83 Draft application received.
2-7-83 Executed and filed in PTO.

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0000015155

1129 APPLICATION OF ABIENOL TO TOBACCO LEAF

R. Southwick, R. Izac, D. Teng, and H. Grubbs
Chemical Research/Sanders/Osdene
Biomaterials Science/Whidby/Farone

Application of abienol, a diterpene found in Oriental tobaccos, to bright tobacco varieties to alter flavor properties.

Inskeep

9-28-82 In-house search completed.
10-8-82 Disclosure file opened.
1-10-83 Additional examples received.

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1130 SMOKING COMPOSITIONS CONTAINING A NOVEL MONOACYL-PYRAZINE FLAVORANT

D. Williams, R. Southwick, and Y. Houminer
Chemical Research/Sanders/Osdene

This invention provides smoking compositions which contain a monoacylpyrazine compound as a flavorant additive. In one of its embodiments, this invention provides tobacco compositions which contain a monoacylpyrazine flavorant additive such as 1-pyrazinyl-2,2-dimethyl-1-propanone. Under cigarette smoking conditions the above illustrated monoacylpyrazine additive flavors the mainstream smoke and enriches the aroma of the sidestream smoke.

FILED Inskeep/D&O

10-14-82 Subject discussed with Depaoli during visit.
10-21-82 Disclosure memo from inventors.
11-4-82 Letter from Depaoli recommending preparation of an application.
11-11-82 Disclosure file opened; Depaoli instructed to proceed with application preparation.
1-7-83 Draft application received—to inventors for review.
2-15-83 Executed and mailed to PTO.

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0000015156

1131 ROTARY BEAM CHOPPER WITH CONTINUOUSLY VARIABLE DUTY CYCLE

P. Martin

Physical Research/Kassman/Farone

Apparatus for converting a single, continuous incident laser beam into at least one pulsed laser beam, with a duty cycle of pulsation that is continuously variable between a minimum value and a maximum value, is provided. The apparatus uses a rotatable disc of nontransmissive material which has a plurality of apertures and adjacent nontransmissive portions disposed in an annular zone. The ratio of the width of each aperture to the width of the adjacent nontransmissive portion varies radically from a minimum ratio to a maximum ratio. As the disc is rotated, the beam is alternately transmitted and blocked, so that a pulsed output beam emerges. The duty cycle of the beam can be adjusted by radially varying the point of incidence of the incident beam within the annular zone so that it impinges on the zone at a radius at which the ratio of widths is at a desired value. Such apparatus can be incorporated into a system for perforating a web of sheet material with a pulsed laser beam.

Sarofeen/F&N/Giannetti

11-11-82 Disclosure file opened.

12-17-82 Preliminary draft by GMJS completed—to F&N for finalization.

2-23-83 Draft application received—to inventor for review.

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1132 HEATED PRINT HEAD FOR CODING CARTONS

W. David and R. Thatcher

Engineering/Tew/Kay/Taylor

Application of a heated print head for coding cartons having heat sensitive ink coatings, and for near invisible coding on poly films.

Sarofeen/F&N/Diana

11-11-82 Disclosure file opened.

12-15-82 Given to Diana during visit for application preparation.

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0000015157

1133 SLITTER KNIFE ADVANCE UNIT

M. Garthaffner
Engineering/Tew/Kay/Taylor

A method and apparatus are disclosed for severing double-length cigarettes and the like. According to the invention, a slitter knife is maintained in whetting engagement with a whetting mechanism, so that the slitter knife never becomes dull. This is preferably achieved by mounting the slitter knife on a pivotable carriage and providing an automatic control system which pivots the slitter knife to maintain it in the desired engagement with the whetter. A feedback system may be included, to monitor the sharpness of the slitter knife and indicate when adjustment of the slitter knife position is required.

Sarofeen/F&N/Diana

11-11-82 Disclosure file opened.
12-15-82 Given to Diana during visit for application preparation.
12-16-82 Letter from Diana with questions.
12-28-82 Memo to Kay requesting layout and detailed drawings.
1-11-83 Draft application received—to Kay for review by inventor.
2-1-83 Draft sketch received.

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1134 APPARATUS FOR FORMING ANNULAR GROOVES OR SLITS IN ROD-SHAPED ARTICLES

G. Fleischhauer and R. Honaker
Engineering/Tew/Kay/Taylor

An apparatus is disclosed for forming annular grooves or slits in rod-shaped articles such as cigarette filter plugs. The apparatus comprises two spaced apart belt conveyers defining a channel between them, for gripping an article between them and moving it along the channel. A former extends into the channel to shape the article. The linear speeds of the two belt conveyers are controllable independently of each other so that the two belts can be driven at different speeds to cause the articles to rotate while passing along the portion of the channel into which the former extends, insuring that each article has a groove formed in it about its entire circumference. This arrangement permits the linear speed of the article along the channel to be controlled independently of its rotational speed.

Sarofeen/F&N/Diana

11-11-82 Disclosure file opened.
12-15-82 Given to Diana during visit for application preparation.
1-19-83 Draft application received.
2-7-83 Draft to inventors for review.

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0000015158

1135 PNEUMATIC HEAT SEALER BAR FOR FILM

R. Thatcher
Engineering/Tew/Kay/Taylor

Sarofeen/F&N/Diana
11-11-82 Disclosure file opened.
12-15-82 Given to Diana during visit for application preparation.

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1136 TOWER DISPENSER

D. Evers
Engineering/Tew/Kay/Taylor

Schardt
12-13-82 Disclosure file opened.
12-15-82 Meeting with R. Matthews, JES and inventor; Matthews to
do right-to-use search.
1-25-83 Search results received.

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1137 ROLL YOUR OWN DEVICE

R. Newsome
Cigarette Development/Gauvin/Meyer

This invention is a device for hand-making cigarettes. It is designed to fold up and is small enough to carry in a shirt pocket like a ball point pen.

Sarofeen/F&N/Shaw
12-8-82 In-house search completed.
1-11-83 Disclosure file opened; meeting with Shaw to discuss disclosure; disclosure to F&N for application preparation; R&D requests priority status for this case.

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0000015159

1138 CONTROL OF TOWER EXIT OV USING TOWER EXIT PRODUCT TEMPERATURE

B. Kiernan and F. Utsch
Tobacco Materials/Burns/Turano

Inskeep/F&N

1-14-83 Disclosure file opened.
1-26-83 Disclosure to F&N for application preparation.
2-21-83 Memo from SAH indicating that R&D wants to discuss this disclosure before proceeding.
2-23-83 F&N instructed to put on "hold" per R&D.

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1139 SUPERSATURATED AQUEOUS Ca CITRATE TREATMENT

N. Rainer and D. Siwiec
Tobacco Fundamentals/Watson/Turano

Treatment of tobacco with a supersaturated aqueous solution of calcium citrate to increase the filling power of the tobacco.

Inskeep

1-14-83 Disclosure file opened.

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1140 OVAL CIGARETTE ROLLING DEVICE

J. Wheless, M. Garthaffner, and G. Reid
Engineering/Tew/Kay/Taylor

Sarofeen/F&N/Diana

1-21-83 Disclosure file opened.
1-31-83 Disclosure to F&N for application preparation.
2-7-83 Drawings to F&N for review.
2-21-83 In-house search completed for Diana.

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0000015160

1140 DESIGN/OVAL CIGARETTE PACKAGES

J. Wheless
Engineering/Tew/Kay/Taylor

(Design application.)

Sarofeen/F&N/Diana
3-3-83 File opened; drawings to F&N for evaluation.

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1141 METHOD AND APPARATUS FOR ALIGNING OVAL CIGARETTE FILTERS

J. Wheless
Engineering/Tew/Kay/Taylor

Sarofeen/F&N/Diana
1-20-83 Disclosure file opened.
1-31-83 Disclosure to F&N for application preparation.
2-21-83 In-house search completed for Diana .

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1142 REUSABLE SMOKING ARTICLE

W. Nichols
Cigarette Development/Gauvin/Meyer

Sarofeen
1-21-83 Disclosure file opened.

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1143 CIGARETTE OVALIZED WITH HEAT

W. Nichols and L. Meyer
Cigarette Development/Gauvin/Meyer

A project data type-cigarette is ovalized with heat and compression. Due to a separation of plugwrap from tipping paper that occurs at the filter cut when the oval cross sections are rotated, dilution air may be introduced in a new way. If pre-perforated tipping is used, dilution flow may be achieved by air passage from the perforations in the tipping to the filter cut.

Sarofeen
1-21-83 Disclosure file opened.

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0000015161

1144 OVAL FILTER HAVING GROOVES

L. Meyer and A. Britton
New Products/Meyer

An oval filter having grooves formed into the filter on the minor axis only. By tipping the above filter to a cigarette, channels for dilution air are formed and bounded by the tipping paper and the non-porous plug wrap of the filter.

Sarofeen/F&N/Diana

1-21-83 Disclosure file opened.
1-31-83 Disclosure to F&N for application preparation.
2-7-83 Drawings to F&N for review.
2-9-83 Additional information to F&N.

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1145 PERFORATION OF ADHESIVE-BACKED PAPER

J. Nepomuceno and J. Nash
Cigarette Development/Gauvin/Meyer

Method of perforating tipping papers precoated with heat-activatable adhesives by laser perforating techniques.

Gregory

1-24-83 Disclosure file opened; memo to inventors stating that we will wait for further data before proceeding.

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1146 NOVEL PYRAZINE ETHERS AND THIOETHERS

D. Williams, E. Southwick, and Y. Houminer
Chemical Research/Sanders/Osdene

Inskeep/D&O

1-24-83 Disclosure file opened.
2-4-83 Disclosure to D&O for patentability evaluation.

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0000015162

1147 LEAF STRIPPER

Related to 1068, 1076, Jenkins Patent Matter

Gregory

1-28-83 Disclosure file opened; in-house search completed.

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1148 DO-IT-YOURSELF CIGARETTE MAKER

E. Fisher, G. Koch, and W. Mutter
Development Engineering/Mutter/Turano

A do-it-yourself cigarette maker utilizing a pre-formed paper tube with or without a filter in place. The end of the paper tube is closed during filling by a finger held against the end when no filter is present.

Sarofeen/F&N/Diana

1-28-83 Disclosure file opened.

1-31-83 Drawings to F&N for review.

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1149 METHOD AND APPARATUS FOR PACKAGING OVAL CIGARETTES

R. Dickerson and J. Wheless
Engineering/Kay/Taylor

Sarofeen/F&N/Diana

1-26-83 Disclosure file opened.

1-31-83 Disclosure to F&N for application preparation.

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0000015163

1150 SPLIT TONGUE FIRMNESS TRANSDUCER

C. Irving and J. Osmalov
Tobacco Fundamentals/Watson/Turano

Transducer for measuring firmness of cigarettes during making. The transducer uses the rear half of the maker short tongue. This half of the tongue is completely separated from the front half and is mounted independently. The transducer section of the tongue is mounted solidly to the maker with no means of adjustment provided. The front half (non-instrumented) of the tongue is mounted in the usual fashion allowing for easy operator adjustment.

Related to PM 779

Gregory
2-16-83 Disclosure file opened.

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0000015164